Goudelock, Gary M 644
Granger, Wesley M 202, 1004
Guilfoile, Timothy D 507
Gundel, Robert H 137
Gutierrez, Charles J 538

Harris, Kathryn 999
Hassett, Lorraine 796
Healey, Joan 1154
Hebb, Harold 1207
Hendrix, Cathy 768, 832
Hess, Dean R 35, 191, 764, 766, 774, 780, 786, 792, 796, 818, 832, 833, 834, 1197
Hodgkin, John E 334
Hoffman, Eric A 913
Howard, William R 55
Hudson, John D 1054
Hudson, Leonard D 1059

Inch, W Rodger 388
Indihar, Frank J 1236
Irvin, Charles G 994

Huntington, Diane 681

Hurst, James M 425, 725

Jobe, Alan 467 Johnson, Noel T 1107 Jordan, Lorraine M 1228

Kacmarek, Robert M 311, 516, 605
Karpel, Sindee Kalminson 395
Kay, Stuart 904
Kempema, Gene 1230
Kessinger, Charles Jr 725
Kester, Lucy 343
Kettrick, Robert G 109
Kim, Chong S 889
Kittredge, Philip 17
Kochansky, Michael T 191, 768, 796, 1185, 1235
Koff, Patty B 1002
Kopotic, Robert J 1011
Kowalczyk, John 1207
Kszystyniak, Barbara A 727

Landay, Michael 224
Large, Elizabeth 1197
Larsen, Gary 994
Larson, Richard P 1065
Lasky, Michael S 151
Lawrence, Gretchen 1002, 1006
Lehman, Erma 786

Light, Richard W 681 Lockwood, Glenn A 1232 Loescher, Thomas C 1008 Luce, John M 113

MacIntyre, Neil R 189
Make, Barry 303, 406
Marini, John J 271, 385, 695, 733
Markel, Wade 768
Martin, Lawrence 40
Martin, Richard J 615
Mathewson, Hugh S 46, 224, 717, 1214
Maunder, Richard J 883, 1059
Mehta, Atul 202, 294
Morgenstern, Myron A 395, 1008
Murphy, Everett M 673

Nelson, Cynthia M 673,1234, 1235 Nelson, Greg 147 Nicks, Joanne J 101 Noonan, Robert Jr 1207

O'Connor, James M 1211
Oh, Kook Sang 22
Oppenheimer, David 421
Orens, Douglas 202
Ott, David 733

Palmer, Bill 1008
Parker, Jeffrey 1188
Patel, Niranjan 106
Perlson, Robert 689
Pierson, David J 31, 97, 266, 398, 1049, 1054, 1065, 1069, 1075, 1083, 1086, 1092, 1100, 1102, 1107, 1121, 1128
Potash, Randi 999
Prato, Frank S 388
Prentice, William S 288
Puff, Michael R 402

Raghu, Ganesh 1100
Rexrode, William O 35, 780, 796, 803
Rice, Charles L 1059
Ritz, Ray 31, 1049, 1086, 1092, 1096
Roark, Beth 421
Roberts, Robert J 581
Robinson, Carol 1092
Rodman, David 720
Roloff, Dietrich 491
Romo, Robert 681

Rosenberg, Nancy 229, 1232 Ruben, Frederick L 909

Sackner, Marvin A 889 Satish, Malini 640 Sawang, Saenghirunvattana 712 Schachter, E Neil 137 Schiffman, Philip L 338 Schoene, Robert B 1128 Scholten, Donald J 402 Schreiner, Mark S 109 Scott, Leta R 31, 1054, 1075, 1086 Senn, Steve 883 Sheely, Raymond B 1234 Sherman, Charles B 1121 Shigeoka, John W 147 Sills, Jim 199, 538 Sivak, Edward D 294 Slavin, Richard 636 Smith, Brian 730 Smith, David W 1188 Smoker, James M 35, 780, 786 Spearman, Charles B 311 Stimmel, Steven 538

Tangen, Marie I 35, 780
Tepper, Robert S 599
Thomas, David A 219
Thomas, Kirk 191
Thompson, John E 605
Thomson, Douglas B 1204
Topf, Barbara M 1207
Troup, JoAnn 786
Truog, William E 498

Waugaman, Wynne R 1228
Waggener, Thomas B 622
Walczack, Stephen 22, 28
Walton, John R 213
Wanger, Jack 51, 219, 720, 883, 994
Wanner, Adam 207
Ward, Jeffrey J 338
Warren, Robert H 896, 1181
Watters, Leslie 720
Wegner, Craig D 137
Whitcomb, Michael E 283
Winn, H Richard 1121
Witek, Theodore J Jr 137, 1207

York, Royce 1207

Ziment, Irwin 117, 415 Zwischenberger, Joseph B 491

# Subject Index to Volume 31 (1986)

1-72	JAN	249-368	APR	561-656	JUL	849-1024	OCT
73-168	FEB	369-440	MAY .	657-744	AUG	1025-1168	NOV
169-248	MAR	441-560	JUN .	745-848	SEP	1169-1264	DEC

Acquired immunodeficiency syndrome (AIDS), New developments in 113

Adenomatoid malformation of the lung, presenting as neonatal distress (case report) 106

Aerosol, Bronchodilator, protocol to assess & administer 780

Airway-

control, complications of 498

Upper, in pathogenesis of infant apnea 615

Alarm, Low-pressure-

for remote monitoring 395

hazardous modification (letter) 1010

Alveolar gas equation—

abbreviating, argument for simplicity 40

This time without birth defects (editorial) 17

Antigen challenge-

Asthmatic response to (PFT Corner) 994

bronchial provocation testing in clinical practice 207

Antiviral drugs-

for acute respiratory infections (Drug Capsule) 46 ribavirin administration to mechanically ventilated

infants 1188

Apnea-

relationship between abnormalities in respiratory control and 622

role of upper airway in infant 615

sleep, Drug therapy for 717

Arterial blood gas analysis-

interpretation via portable computer 792

quality control 807

relationship between arterial and conjunctival PO<sub>2</sub> 191

Asphyxiated infant, Deterioration of (TYRS) 534

Asthma-

drug therapy and dosage adjustment (Drug Capsule)
415

five thousand years of treatment 117

Asthmatic response to antigen challenge (PFT Corner)

Attelectasis, Spectrum of pulmonary (review) 1107

effect of inspiratory flowrate, & compressible volume

incidence, severity, and detection 1069

relationship of endotracheal tube size to 1080

Bibliography, Harborview Medical Center, 1978-1986

Blenders, air-oxygen, performance characteristics 31

#### **Blood Gas Corners**

#13-Why Did This Patient Fail To Wean? 712

#14—Cyanosis with Hyperoxemia 827

#15—Hypoxemia during Dialysis 1148

#### Books, Films, & Tapes-Reviews of

- "Arterial Blood Gases: A Self-Study Manual" 1154
- —"Acute Lung Injury: Pathogenesis of Adult Respiratory Distress Syndrome" 1004
- —"An Atlas of Critical Care Chest Roentgenography" 224
- "Assessment of the Pulmonary Patient" 727
- -"Better Breathing Today" 1002
- —"Biomedical Bestiary: An Epidemiologic Guide to Flaws and Fallacies in the Medical Literature" 1156
- "Bronchodilator Therapy: The Basis of Asthma and Chronic Obstructive Airways Disease Management" 224
- -"Cecil Essentials of Medicine" 1228
- -"Children with Asthma: A Manual for Parents" 644
- -"Choices: The Key is You" 1006

- "Chronic Obstructive Pulmonary Disease" 1158
- -"Clinical Assessment in Respiratory Care" 727
- —"Comprehensive Management of Respiratory Emergencies" 425
- -- "Clinical Epidemiology: The Architecture of Clinical Research" 833
- -"Critical Care-The Lung," 1154
- -"Decision Making in Critical Care" 425
- —"High-Frequency Ventilation in Intensive Care and during Surgery" 730
- —"Home Care for the Chronically Ill or Disabled Child" 731
- -"How To Become a Former Asthmatic" 338
- —"Mechanical Ventilation: Physiological and Clinical Applications" 1229
- -"Inhaled Aerosol Bronchodilators" 834
- "Pocket Reference for Medical Intensive Care" 730
- —"Pulmonary Care: A Guide for Patient Education" 832
- "Research: How to Plan, Speak, and Write about It" 832
- —"Respiratory Care Sciences: An Integrated Approach" 644
- —"Respiratory Intensive Care of the Adult Surgical Patient" 1228
- "Respiratory Therapy Competency Evaluation
  Manual" 338
- -- "Respiratory Therapy in Newborn Infants and Children" 1002
- -"The Asthma Handbook" 338
- -"Turbo Pascal version 3.01" 424
- -"Visual Instructional Training Aids" series 426

BP2001, Possible problem with (letters) 55, 345

Bronchial provocation testing-

cold-air challenge for exercise-induced bronchospasm (PFT Corner) 51

dosimeter using solid-state timing module 1204 in clinical practice 207

Bronchodilator therapy, Protocol to assess & administer 780

Bronchopulmonary dysplasia-

clinical presentation & role of mechanical ventilation 591

pharmacologic approaches to prevention & treatment 581

pulmonary function in infants with 599

Bronchopleural fistula-

comparison of devices for quantitating air leak 1065 determination of dead-space ventilation and CO<sub>2</sub> production in 398

management during mechanical ventilation (case report)
904

Caloric requirements, Comparison of four methods of determining 1197

### **Case Reports**

- —A Modified Technique for the Management of Bronchopleural Fistula in Ventilator-Dependent Patients 904
- —Congenital Cystic Adenomatoid Malformation of the Lung Presenting as Neonatal Respiratory Distress 106
- —High Frequency Jet Ventilation in Tandem with Conventional Volume Ventilation for Acute Respiratory Failure 402
- —Platypnea-Orthodeoxia after Pneumonectomy: A Case Report 1211
- —Prolonged Respiratory Paralysis following Cutaneous
  Diphtheria: A Footnote to Seattle's Skid Road
  Diphtheria Epidemic of the 1970s 1102
- —Successful Removal of an Aspirated Tooth by Chest Physiotherapy 1099
- —Therapeutic Use of a Laser System in Pulmonary Medicine 202

Catheter-

contamination of multiple-use versus single-use catheter 1086

design, Evaluation of 889

Chest physiotherapy, Successful removal of aspirated tooth (case report) 1099

Colloid oncotic pressure measurement-

comparison with total protein concentration via refractometer 28

in determining pathogenesis of pulmonary edema in children 22

Computer applications in medicine (report) 818

Conjunctival PO<sub>2</sub>, Relationship between arterial PO<sub>2</sub> and 191

Contamination-

single-use vs multiple-use suction catheters 1086 ultrasonic nebulizers, implications for circuit changes 1207

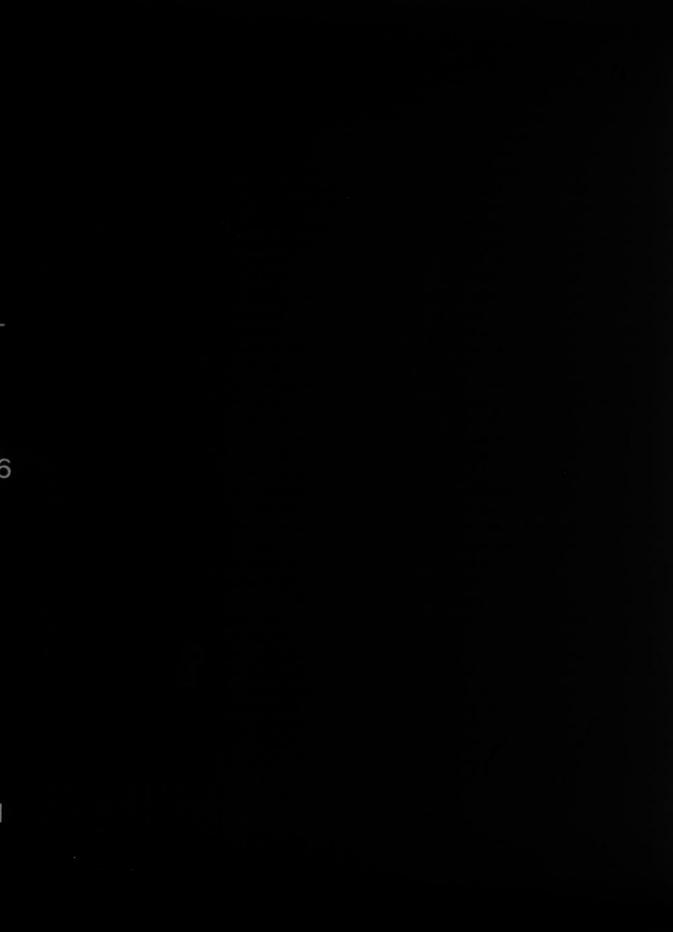
Continuous positive airway pressure (CPAP)—
one-way valves (letters) 428, 540
PFLEX for CPAP or EPAP? (letter) 1230
resistance to gas flow across 14 devices 18
use of PFLEX to provide (letter) 229

Corrections-

Respir Care 1986;31:673. Correction of standard deviations. 1230

Respir Care 1986;31:702. Addition and correction to references 926

Respir Care 1986;31:147. PFT Corner #21. Legends reversed 345



Respir Care 1985;30:1022,1025,1028. Incorrect page numbers 345

Cyanosis with hyperoxemia (BG Corner) 827
Densities, Aberrant bone, in infant (TYRS) 640

#### Devices, Methods, & Services

- —Calibration of Respiratory Inductive Plethysmography on Lambs and Piglets Receiving Controlled Mechanical Ventilation 896
- -Clinical Use of Pulse Oximetry To Determine Oxygen Prescriptions 673
- —Comparison of Four Methods of Determining Caloric Requirements of Mechanically Ventilated Trauma Patients 1197
- —Comparison of Three Devices for Quantitating Bronchopleural Air Leak 1065
- —Contamination of Multiple-Use Suction Catheter in Closed-Circuit System Compared to Contamination of Disposable Single-Use Catheter 1086
- —Design and Evaluation of Nitrous Oxide Scavenging System 1092
- —Determination of Dead-Space Ventilation and CO<sub>2</sub> Production in Presence of Gas Leak from B-P Fistula 308
- —Efficacy of the Oxymizer Pendant in Reducing Oxygen Requirements 681
- —Efficacy of Pulsed Oxygen Delivery during Exercise 883
- -Emergency Cuff-Inflation Technique 199
- —Evaluation of the Nellcor N-10 Portable Pulse Oximeter 796
- -Evaluation of P.K. Morgan Pocket Spirometer 786
- —Evaluation of Safety and Efficiency of New Suction Catheter Design 889
- —Evaluation of the Sechrist 990 High Frequency Jet Ventilator 101
- —Managing Positive End-Expiratory Pressure (PEEP):
  The Harborview Approach 1059
- —Maximum Ventilatory Capabilities of Four Current-Generation Mechanical Ventilators 1054
- Modification of an External Low-Pressure Ventilator
   Alarm 395
- Performance Characteristics of Five Models of Air-Oxygen Blenders 31
- —Portable and Inexpensive Computer System To Interpret Arterial Blood Gases 792
- —Protocol To Assess and Administer Bronchodilator Therapy 780
- -Protocol To Assess Oxygen Therapy 35
- —Safe and Successful Delivery-Room Intubation and Resuscitation of Meconium-Stained Newborns by Respiratory Therapists 689
- -Simple Dosimeter for Bronchial Provocation Testing

- Using a Solid-State Electronic Timing Module 1204
- —Simple Technique for Pulmonary Function Testing in Patients with Permanent Tracheostomies 1083
- —Simple VD/VT Gas-Collection Valve for Use with Siemens Ventilator 1096
- -Swivel Connector for Tracheostomy 109
- —Ventilatory Volumes Using Mouth-to-Mouth, Mouthto-Mask, and Bag-Valve-Mask Techniques 774
- Devices, Medical, act, implications for respiratory care (editorial) 881
- Diaphragmatic pacing associated with sore throat and neck pain (letter) 1235
- Diphtheria, Prolonged respiratory paralysis following (case report) 1102

## **Drug Capsules**

- -Antiviral Drugs for Acute Respiratory Infections 46
- -Drugs that Injure the Lung 1214
- —Drug Therapy and Dosage Adjustment in Asthma 415
- Dynamic Spatial Reconstructor, 3-Dimensional Imaging
- Dyspnea, Sudden in a postoperative patient (TYRS) 421

#### **Editorials**

- —Abbreviating the Alveolar Gas Equation Again—This
  Time without Birth Defects 17
- -Exertion during Ventilator Support: How Much and How Important? 385
- —In-House Manuscript Review Smooths the Path to Publication 766
- —Managing Respiratory Care at Harborview: Camaraderie, Creativity, and Clinical Research 1049
- —1986 Open Forum: There've Been Some Changes Made 100
- Oximetry, Technology, and Medicare Guidelines
   1185
- -Pressure Support Ventilation 189
- -Research in the Community Hospital 764
- —Medical Devices Act and Mandatory Standard Promulgation: What Are the Implications for Respiratory Care? 881
- —What's New in Respiratory Care?—Introducing a New Series 97
- Embolism, Pulmonary in healthy young patient (case report) 803
- Endotracheal tube changer (letter) 538
- Endotracheal and tracheostomy tubes—

emergency cuff inflation (letter) 538 emergency cuff-inflation technique 199 relationship of size to auto-PEEP 1080 swivel adapter for infant tracheostomy 109

Equipment, reusable vs disposed disposable vs reused disposable 213

Exercise, Efficacy of pulsed oxygen during 883

Exercise-induced bronchospasm and cold air challenge (PFT Corner) 51

Exercise prescriptions-

Pulse oximetry to determine 673

Validity of pulse oximetry to determine (letter) 0000 Extracorporeal membrane oxygenation in newborns 491 Fistula, Bronchopleural, management in ventilatordependent patients (case report) 904

Harborview Medical Center Special Issue 1025

Head injury, Use of hyperventilation in 1121

Hemoptysis, Massive (TYRS) 999

High frequency jet ventilation (HFJV), Evaluation of Sechrist 990 101

High frequency ventilation (HFV)

for ARF, with conventional ventilation (case report)
402

in neonate 480

Home care-

controlling FIO2 (letter) 1230

of ventilator assisted patients 266, 288, 294, 303, 311, 329, 334, 406

of ventilator-assisted infant 605

Hospital, Research in community (editorial) 764

Hypercapnia, Assessing ventilatory response to (PFT Corner) 219

Hyperoxemia, Cyanosis with (BG Corner) 827

Hyperventilation, Use in head injury (review) 1121

Hypoxemia during dialysis (BG Corner) 1148

Hypoxia, Assessing ventilatory response to (PFT Corner) 219

Imaging—

noninvasive three-dimensional medical 913 nuclear magnetic resonance, to monitor lung injury 388 Immunosuppressed patient, infiltrates in (TYRS) 829

Inductive plethysmography, Calibration of, during mechanical ventilation 896

Infiltrates, Pulmonary in immunosuppressed patient (TYRS) 829

Influenza: A Clinical Update 909

Index-

Annual Author 1242

Open Forum Abstract Authors 930

Infant respiratory distress syndrome, Surfactant treatment for 467

Infant ventilators-

home care of ventilator-assisted infant 605

Possible problem with Bear BP2001 55, 345 Sechrist 990 evaluation 101

work of breathing (letter) 1008

Injury, Thoracic, evaluation of (TYRS) 725

Interpretation, Arterial blood gas, by portable computer 792

Intubation & resuscitation of meconium-stained newborns by therapists 689

Laser, Therapeutic use in pulmonary medicine (case report)

Leukotrienes, pharmacologic and clinical implications

Low-pressure alarm, Hazardous modification (letter)

Lung volume, Changes following rehabilitation 768

Mach bands-visual phenomenon (TYRS) 1151

Manuscript review, In-house (editorial) 766

Mechanics, Dynamic respiratory 703

Monitoring, Transcutaneous, in acutely ill neonate 507

Muscle function, Evaluation of respiratory 720

Nebulizers, ultrasonic, bacterial contamination & circuit changes 1207

Nellcor N-10 pulse oximeter evaluation 796

Neonatal Special Issues 441-560, 561-656

Nitrous oxide scavenging system 1092

Nuclear magnetic resonance imaging to monitor lung injury 388

Nutrition—comparison of methods to determine caloric requirements of ventilated trauma patients 1197

Obstructive sleep apnea, drug therapy for 717

Open Forum abstracts 930

Oximeter, Nellcor N-10 evaluation 796

Oximetry-

distinguishing between pulse and ear (letter) 428.

Pulse, to determine exercise prescriptions 673

(corrections to paper 1230)

technology, and the Medicare guidelines (editorial)

Oxygen cannula for neonates (letter) 55

Oxygen, Pulsed, delivery during exercise 883

Oxygen therapy, Protocol to assess 35

Oxymizer pendant, Efficacy in reducing oxygen requirements 681

Pacing, Diaphragmatic, associated with sore throat and neck pain (letter) 1235

Percussor, Fire in pneumatic (letter) 343

#### **PFT Corners**

#20—Cold Air Breathing with Exercise To Assess Exercise-Induced Bronchospasm 51

#21—Determining the Site of Obstruction 147

#22—Assessing Ventilatory Response to Hypoxia and
Hypercapnia 219

#23—Evaluation of Respiratory Muscle Function: Can't Breathe or Won't Breathe? 720

#24—Immediate and Late Asthmatic Responses to
Antigen Challenge 994

Placement alternatives for ventilator-dependent patients 288

Platypnea-orthodeoxia (case report) 1211

Plethysmography, calibration during mechanical ventilation 896

P.K. Morgan pocket spirometer evaluation 786

Pneumomediastinum, Does This Patient Have? (TYRS) 1151

Pneumothorax in newborn infant 628

Pressure-support ventilation 189

Public policy considerations in care of ventilator-dependent patient 283

Pulmonary edema in children-

differentiation of pathogenesis by colloid oncotic pressure measurement 22

comparison of total protein by refractometer and colloid oncotic pressure measurement 28

Pulmonary embolism in young patient (case report) 803 Pulmonary function—

determining site of obstruction (PFT Corner) 147 in infants with chronic lung disease 599 technique for testing in tracheostomy patients 16

technique for testing in tracheostomy patients 1083

Ouality control of blood gas analysis 807

Rate, Turn up the (letter) 733

#### Reviews, Overviews, & Updates

New Controversy in Respiratory Equipment Management: Reusables versus Disposed Disposables versus Reused Disposables 213

Bronchial Provocation Testing in Clinical Practice 207 Dynamic Respiratory Mechanics 703

Five Thousand Years of Attacking Asthma: An Overview—The 1985 Donald F Egan Scientific Lecture 117

Influenza: A Clinical Update 909

Mechanical Ventilation in the Home: A New Mandate

Mechanical Ventilation: Taking the Work Out of Breathing? 695

New Developments in the Acquired Immunodeficiency Syndrome: Are Treatment, Prevention, and Control Possible? 113

Noninvasive Three-Dimensional Medical Imaging: A Bright Future for the Integrative Approach to Cardiopulmonary Physiology 913

Quality Control of Blood Gas Analysis: A Review 807
The Control of Ventilatory Drives: Physiology and
Clinical Implications 1128

The Leukotrienes: Pharmacologic and Clinical

Implications 137

The Spectrum of Pulmonary Atelectasis: Pathophysiology, Diagnosis, and Therapy 1107
The Use of Hyperventilation in Head Injury 1121

Rehabilitation, Effect on lung volumes 768
Research in the community hospital (editorial) 761
Resistance to gas flow across CPAP devices 18
Respiratory—

control, Relationship to infant apnea 622 infection, antiviral drugs for 46 mechanics 703

muscle function, evaluation (PFT Corner) 720 practitioner, role in perinatal care 516

Resuscitation, Delivery room intubation &, of meconiumstained newborns 689

Resuscitation. Ventilatory volumes with mouth-to-mouth, mouth-to-mask 774

Review, In-house manuscript, (editorial) 766

Ribavirin administration during mechanical ventilation

Rupture, Lung, in newborn infant 628
Sleep apnea, drug therapy for obstructive 717
Spirometer, P.K. Morgan, evaluation 786

Standards, Mandatory and Medical Devices Act, implications 881

Suction catheter design, Evaluation of 889
Surfactant treatment for respiratory distress 467.

Technology, Impact on neonatal intensive care 524

# Test Your Radiologic Skill (TYRS)

- —Aberrant Bone Densities in an Infant with Multiple Anomalies 640
- —Does This Patient Have a Pneumomediastinum?
- -Evaluation of Blunt Thoracic Injury 725
- -Massive Hemoptysis of Sudden Onset 999
- —Pulmonary Infiltrate in an Immunosuppressed Patient 829
- -Respiratory Distress following Thymectomy 1225
- —Sudden Deterioration of a Previously Asphyxiated Infant 534
- -Sudden Dyspnea in a Postoperative Patient 421

Thoracic injury, Evaluation of blunt (TYRS) 725

Three-dimensional medical imaging 913

Thymectomy, Respiratory distress following 1225
Tracheostomy—

cuff-inflation technique (letter) 538
emergency cuff-inflation technique 199
swivel connector for infant 109

Ventilation, Mechanical—

work of breathing 385, 695

auto-PEEP, effect of flowrate and compressible volume

## SUBJECT INDEX, VOLUME 31 (1986)

auto-PEEP, relationship to ET tube size 1080 auto-PEEP, incidence, severity, & detection | 1069 complications of, and airway control in neonate 498 HFV in newborn infants 480 pressure support 189 role in bronchopulmonary dysplasia 591 Ventilator alarm, for remote monitoring 395 Ventilator-assisted infants, home care of 605 Ventilator dependence, Physiologic determinants 271 Ventilator-dependent patient-Continuing care of, Special Issue 249-368 Cleveland Clinic experience 294 equipment for home care of 311 long-term management 30 non-ventilator aspects of care 334 possibilities & prerequisites (foreword) 266 psychosocial aspects 329 public policy considerations 283

placement alternatives for 288 Ventilators, Adult comparison of capabilities 1054 gas-collection valve for use with Siemens 1096 Ventilators, Infantpossible problem with Bear BP2001 55, 345 Sechrist 990 evaluation 101 Ventilatory drive, control of 1128 Volumes, Ventilatory with mouth-to-mouth, mouth-tomask technique 774 Weaningphysiologic determinants of ventilator dependence 271 why patient failed (Blood Gas Corner) 712 Work of breathingmechanical ventilation and 385, 695, with infant ventilators (letter) 1008 York Hospital Special Issue 745-848

